

WHAT IS CLAIMED IS:

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1. A filtration media for drinking water comprising:  
metal oxide nanocrystals; and  
a polymeric binder.
  2. The filtration media of claim 1, further comprising activated carbon.
  - 2.8. The filtration media of claim 1, wherein the nanocrystals are present in an amount ranging from about 0.1 to about 10 wt%, based upon the total weight of the filtration media.
  - 3.4. The filtration media of claim 1, wherein the metal oxide is selected from the group consisting of titanium oxide, zinc oxide, and mixtures thereof.
  - 4.5. The filtration media of claim 1, further comprising zirconia.
  - 5.8. The filtration media of claim 1, wherein the nanocrystals have an average particle size ranging from about 20 nm to about 1000 nm.
  - 6.7. The filtration media of claim 1, wherein the polymeric binder is selected from the group consisting of high-density polyethylene and low-density polyethylene.
  - 7.8. The filtration media of claim 1, wherein the polymeric binder is high-density polyethylene.
  9. A filtration media in the form of a block, comprising:  
nanocrystals of zinc oxide or titanium oxide or a mixture thereof in an amount of about 0.5 wt%, based on the total weight of the filtration media;  
activated carbon;  
a polymeric binder.

[illegible]

add a2

~~Filtration media  
with organic binder will  
be added to polymer  
filtration media  
under range~~

15. The filtration media of claim 14, wherein the weight ratio of nanocrystals to polymeric binder ranged between about 20:1 and about 10:1